

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Atty. Docket

JACOB HERVE

FR000145

Filed: CONCURRENTLY

Title: APPARATUS COMPRISING A RECEIVING DEVICE WORKING WITH SPACE DIVERSITY AND PROCESSING METHOD FOR SIGNAL RECEIVED OVER VARIOUS CHANNELS

Commissioner for Patents, Washington, D.C. 20231

PRELIMINARY AMENDMENT

Sir:

Prior to calculation of the filing fee and examination, please amend the above-identified application as follows:

IN THE CLAIMS

Please amend Claims 3 and 4 to be in the form as follows. A marked up copy of the claims is included in an appendix following this amendment for the Examiners convenience.

3. An apparatus as claimed in claim 1, characterized in that a combining circuit is provided for combining the signals of the two branches.

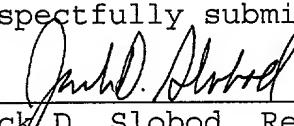
4. A processing method for signals received over various channels, implemented in a system as claimed in claim 1 and having been subjected to a time diversity via a spreading code formed by code elements which appear in a complex form, characterized in that it comprises the following steps:

- reception of signals over at least two channels,
- mixing of signals of each one of the channels by a local oscillator to reverse the phase of the signals of one of the channels,
- demodulation of the signals by means of a first demodulation branch which operates with said non-conjugate spreading code elements and at least a second demodulation branch operating with said conjugate code elements,
- combining signals supplied by the two branches to reconstruct the thus transmitted data.

REMARKS

The foregoing Preliminary Amendment to the claims was made solely to avoid filing the claims in the multiple defendant form so as to avoid the additional filing fee.

The claims were not amended in order to address issues of patentability and Applicant respectfully reserves all rights he may have under the Doctrine of Equivalents. Applicant furthermore reserves his right to reintroduce subject matter deleted herein at a later time during the prosecution of this application or continuing applications.

Respectfully submitted,
By 

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APPENDIX A
MARKED-UP CLAIMS

3. An apparatus as claimed in claim 1 or 2, characterized in that a combining circuit is provided for combining the signals of the two branches.

4. A processing method for signals received over various channels, implemented in a system as claimed in ~~one of the claims 1 to 3~~ claim 1 and having been subjected to a time diversity via a spreading code formed by code elements which appear in a complex form, characterized in that it comprises the following steps:

- reception of signals over at least two channels,
- mixing of signals of each one of the channels by a local oscillator to reverse the phase of the signals of one of the channels,
- demodulation of the signals by means of a first demodulation branch which operates with said non-conjugate spreading code elements and at least a second demodulation branch operating with said conjugate code elements,
- combining signals supplied by the two branches to reconstruct the thus transmitted data.